

# OCTOBER

at the

CALIFORNIA ACADEMY OF SCIENCES

YOU ARE CORDIALLY INVITED  
TO THE  
1972 OPEN HOUSE  
OF THE  
ACADEMY

WEDNESDAY EVENING, OCTOBER 18  
7:30 TO 10:30 P.M.

Come, bring your friends and enjoy a backstage glimpse of that fascinating part of the CAS which the public does not see — the fine research departments that constitute a major part of our many activities. For the first time since open houses became an annual event, *all* research departments will be available for inspection — plus the annual experience of going behind-the-scenes of Steinhart Aquarium to marvel at the mechanics that make it the respected, notable installation which it is.

This evening is for you and for your friends (please use your membership guest tickets and have them filled in), a fine opportunity to become further acquainted with the West's oldest scientific institution.

Doors open at 7:30.

## MORRISON PLANETARIUM

"YOU ASKED FOR IT!" continues in the Theatre of the Stars through October 8. Beginning October 12 and playing through December 3:

"STARS OVER SAN FRANCISCO". This was the title of the first show ever presented in Morrison when it opened to an excited populace on November 8 — twenty years ago. The heavens haven't changed much — but what's gone on behind the scenes in the planetarium? Two and one-half million people have enjoyed its starry wonders over the ensuing years.

Performances daily at two with evening shows, Wednesday through Sunday, at eight. Extra matinees

on Saturdays, Sundays and holidays at 3:30. Closed Monday and Tuesday nights.

Admission: Anyone 18 and over, \$1.00. Anyone 17 and under: 50c.

## SPECIAL EXHIBITS

"MAN AND NATURE (AS INTERPRETED BY THE INDIANS OF NORTH AMERICA)", continues in Lovell White Hall — photographic enlargements, artifacts, mounted animals, and the raw materials of nature. Continues indefinitely.

"THE FLORA OF SAN BRUNO MOUNTAIN", photographs and herbarium specimens celebrating the publication of a book of the same name by Dr. Elizabeth McClintock of the Academy's Department of Botany, and Mr. Walter Knight, Regional Parks Botanic Garden, Berkeley. Hohfeld Gallery.

"THE GOLDEN GATE NATIONAL RECREATION AREA", black and white photographs, mainly landscapes, the work of prominent Bay Area photographers. Continues through the month of November, Lower Gallery, Cowell Hall.

"GALAPAGOS" continues in Cowell Hall.

## NEWS and NOTES . . . . .

THE ACADEMY's dinosaurs went international during a week in August with the result that our *Allosaurus fragilis* and our *Dilophosaurus wetherilli* Welles will soon be starring on television screens in both Great Britain and Italy. It all came about through the reputation of a specialist on dinosaurs, Dr. Samuel P. Welles who appeared before the Academy membership at the meetings last June. His reputation has crossed the Atlantic. The British Broadcasting Company was first on the scene with cameras and crews and did some filming with Dr. Welles as commentator.

Radiotelevisione Italiana came next through its interest in the "Cosmic Evolution" series held at the Palace of Fine Arts. The Italian organization was interested in the possible effect of cosmic rays and how they might be related to the extinction of dinosaurs. It again featured Dr. Welles and our two fine fossil specimens and the Italians photographed in detail. While being on the premises they became interested in Richard Cook of the Exhibits Department and his detailed drawings of reconstruction of our dinosaur's heads. That led them to being fascinated by the excellent sculptures of whales being fashioned by Jerry Glover and those were photographed also for future reference.

Our dinosaur collection may not be the largest in the world but is very select. Dr. Welles has an article in the September-October issue of *PACIFIC DISCOVERY*.

APPREHENSIVE as they were at the outset as to longevity, in captivity, the experts in Steinhart Aquarium are happy to announce that the three large deepwater Japanese spidercrabs (*Machrocheira kaempferi*) in Tank #10 are doing marvelously — eating with relish and adjusting to their new home. They were the gift from Yomiuriland, a marine aquarium on the outskirts of Tokyo. From claw tip to claw tip they measure approximately four feet and are able to raise themselves some ten inches off their 'ocean' floor. A true decapod, they are brilliantly marked in orange and white.

Though it seems unbelievable, they, in their natural state, can reach a width of 11 feet (claw tip to claw tip) and have been taken from ocean depths of 2,000 feet. See 'em! Believe 'em!

## RECENT SCIENTIFIC PUBLICATIONS OF THE

### CALIFORNIA ACADEMY OF SCIENCES

#### OCCASIONAL PAPERS

"Trunk Lateral Line Nerves, Hyoid Arch Gill Rakers, and Olfactory Bulb Location in *Atheriniform*, *Mugilig*, and *Percoid* Fishes". Warren C. Frehofer. No. 95. July 27, 1972. . . . . 50¢

"Description of a New Species of *Tropicolotes* (Reptilia: Gekkonidae) with a Revised Key to the Genus." Alan E. Leviton and Steven C. Anderson. No. 96. July 27, 1972. . . . . 25¢

"The Anatomy of *Speleodiscoides spirellum*". A. G. Smith and Walter B. Miller. No. 97. July 27, 1972. 25¢

"A Cavernicolous Whip-scorpion from the Northern Mojave Desert, California (Schizomida: Schizomidae)". Thomas S. Briggs and Kevin Hom. No. 98. July 27, 1972. . . . . 25¢

ACADEMY MEMBERS are invited to join a telescope making class to be conducted by Mr. John Dobson who has had extensive experience in this fascinating pursuit.

The first gathering is scheduled for Monday night, October 16, seven o'clock, in the Academy courtyard where the general project will be discussed. The actual classes will start the following Saturday,



October 21, at 9:00 a.m., and then on Monday evening October 23 at seven (you have a choice of which you wish to attend). Enrollment fee is \$25.00 per family and each class is limited to 30 families or people actually working on telescopes. Those building them must be ready to incur further expenses for materials running to about another \$60.00 for an 8" telescope. Materials will be available at the first class.

For more information, please call the Planetarium office at 221-5100. Wear warm clothes for the discussion session on October 16.

**A** MAJOR COLLECTION of marine invertebrates of the Pacific Ocean, built up over the past half-century by leading Pacific Coast marine biologists, that had been in storage at Hopkins Marine Station in Pacific Grove, has recently been transferred to the research collections of the CAS' Department of Invertebrate Zoology.

The collection, totaling more than 4,000 lots and ranging back to the mid-19th century, is judged to be of tremendous scientific and historical interest, and includes the specimens upon which many classic Pacific coast marine invertebrate studies were based. The collectors comprise a kind of "who's who" among pioneer biologists of the coast, including David Starr Jordan, W. D. De Laubenfels, William Healey Dall, Alexander Agassiz, Libbie Hymans, S. F. Light, and many others, as well as specimens collected by E. F. Ricketts and John Steinbeck in the Sea of Cortez. The former is "Doc" in Steinbeck's "Cannery Row".

Included in the material are many unique specimens of marine animals rarely seen by marine biologists. And there is non-invertebrate material among which is a three-inch humpback whale embryo!

## Meet The Staff . . .

ROBERTA PACHEU, as a member of the office staff of the Academy, is probably better acquainted with the names and the faces of the ever-burgeoning personnel than anyone on the premises. Her principal duty is the payroll, and twice-monthly, grins light up the place when she makes her welcome rounds. During this past summer the staff was at its apogee — some 200 plus — because of both additional employees for the summertime hours as well as those working part time.

Born in West Hartford, Connecticut and educated there, she is an alumna of the University of Connecticut at Storrs having majored in English and Sociology. After college, she was employed by West



Photo by Lloyd Ullberg

Hartford's Educational School System for several years. Life on the eastern seaboard began to pall and in company with her sister Pat (there are four girls in the family) she emigrated directly to San Francisco, a move she had long dreamed. Almost immediately she had a job with Kaiser Industries in the East Bay in marketing research, an occupation which lasted three years. Then, the opportunity of working at the Academy arose and after an interview the job was hers. Not only does she handle the payroll but also is in charge of the subscriptions and distribution of PACIFIC DISCOVERY, the Academy's bimonthly magazine.

Roberta is an inveterate reader — or rather — as she says, "I devour books". Bicycling all around San Francisco is another joy. She is in love with the entire area and especially working in the surroundings of Golden Gate Park.

## NEW MEMBERS OF THE ACADEMY

### Regular Members

Mr. & Mrs. Ernest Carr	Miss Gloria Markowitz
Mr. Don A. Denison	Miss Carol Ozminkowski
Mr. Donald DeLaura	Miss Betty Pollock
Miss Karen Eikeland	Mr. Francis B. Randall
Mr. Robert L. Fisher	Mr. T. N. Seeno
Miss Constance H. Illsley	Mrs. Herbert Stark
Mrs. John S. Logan	Mr. Don W. White
Dr. & Mrs. James M. Lyon	Miss Diane Wollter

### Family Members

Mr. J. C. Albergotti &	Mrs. Sandra I. Murray
Mr. Marten F. Klop	Mr. & Mrs. Leslie M. Peters
Mr. Elva Roy Bigger	Mr. & Mrs. Frank J. Portman
Mr. Peter M. Cistaro	Dr. Cappy Rothman
Mr. & Mrs. R. W. Crittenden	Mr. & Mrs. Robert B. Ruff, Jr.
Mr. & Mrs. Donald L. Harris	Mr. & Mrs. Carl H. Spitzer
Mr. Michael Hudgins	Mr. John G. Stuber
Mr. & Mrs. Steven D. Leonard	Mr. & Mrs. Lionel A. Tucker, Jr.
Mr. & Mrs. Harold Mason	Mr. & Mrs. Larry Turley
Mrs. Ann M. Walker	

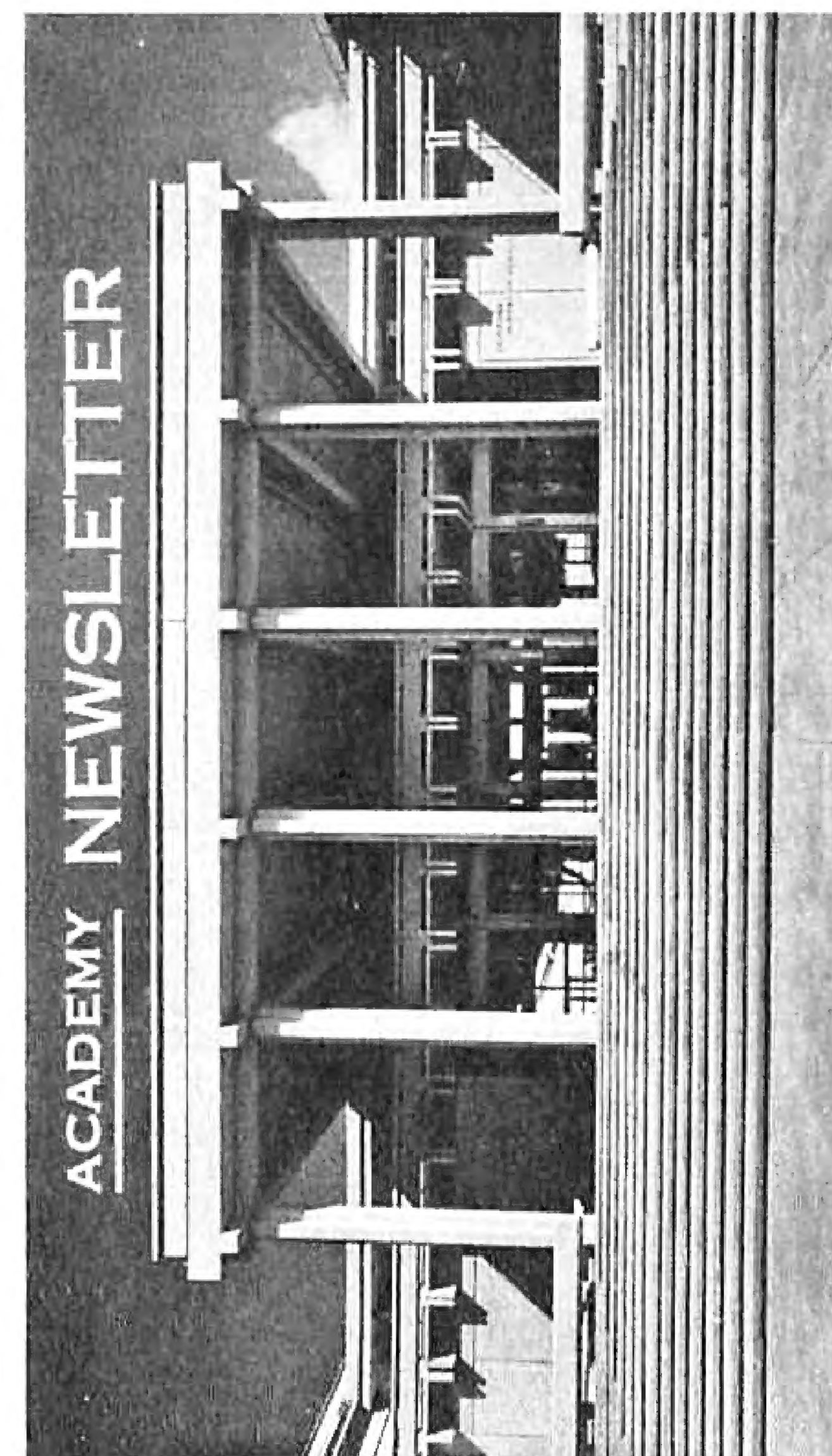
## THE CALIFORNIA ACADEMY OF SCIENCES

Open every day of the year San Francisco 94118  
(415) 221-5100

Non-Profit Organization  
U. S. POSTAGE  
**PAID**  
San Francisco, Calif.  
Permit No. 7544

Ref.  
Q111  
G22  
110.394

CALIFORNIA  
ACADEMY OF SCIENCES  
OCT - 2 1972  
LIBRARY



No. 394 — Published Monthly by the  
**CALIFORNIA ACADEMY OF SCIENCES**  
GOLDEN GATE PARK • SAN FRANCISCO 94118

OCTOBER 1972

Printed on 100% Recycled Paper